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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,874	07/07/2003	Jae Hong Jun	P68979US0	6969
136	7590	06/15/2004	EXAMINER	
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004			QUARTERMAN, KEVIN J	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Applicati n N .

10/612,874

Applicant(s)

JUN ET AL.

Examiner

Kevin Quarterman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 12-14 and 19 is/are rejected.
- 7) ☒ Claim(s) 7-11, 15-18, 20 and 21 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
2. The following title is suggested: --PLASMA DISPLAY PANEL WITH POROUS PAD--.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Spear (US 6310767).
5. Regarding independent claim 1, Figure 3 of Spear shows a display unit comprising a display panel (14) for displaying a picture and a porous pad (28) provided at the display panel.
6. Regarding claim 2, Spear discloses that the porous pad is made of material that absorbs noise/vibration and conducts heat (col. 4, ln. 11-13).

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7. Claims 1-5 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Irie (US 6560124).

8. Regarding independent claim 1, Figures 2 and 4 of Irie shows a plasma display panel comprising a display panel (1) for displaying a picture and a porous pad (2) provided at the display panel.

9. Regarding claim 2, Irie discloses that the porous pad is made of a material that absorbs noise/vibration and conducts heat (col. 2, ln. 3-6).

10. Regarding claim 3, Figure 6 of Irie shows a printed circuit board (9) mounted with a plurality of integrated circuits (92) for applying driving signals to the display panel and a heatproof panel (91) arranged between the porous pad and the printed circuit board.

11. Regarding claim 4, Figure 2 of Irie shows a double-faced tape (8) having a heat-conducting function and provided between the display panel and the porous pad.

12. Regarding claim 5, Figure 1 of Irie shows a filter glass (7) provided at the front side of the display panel to control transmittivity of light emitted from the display panel and a back cover (6) for covering the printed circuit board.

13. Regarding independent claim 13, Figure 2 of Irie shows a plasma display panel comprising a display panel (1) for displaying a picture; Figure 6 of Irie shows a frame (91) adjacent a rear surface of the display panel; a printed circuit board (9) adjacent a rear surface of the frame and connected thereto by fastening elements (94); and a porous pad (2) positioned between the display panel and the frame, the porous pad absorbing noise/vibration generated upon driving of the display panel to minimize noise/vibration transferred to the frame.

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14. Regarding claim 14, Irie discloses that the porous pad is made of a heat-conducting material that, in addition to absorbing noise/vibration, also enables the pad to transfer heat from the display panel to the frame (col. 2, ln. 3-6).

Claim Rejections - 35 USC § 103

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

16. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

17. Claims 6, 12, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Irie (US 6560124) in view of Spear (US 6310767).

18. Regarding claims 6 and 19, Irie teaches the claimed limitations of claim 5, as discussed earlier, but fails to exemplify a second porous pad provided between the printed circuit board and the back cover.

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19. Spear teaches that it is known in the art to provide a porous pad between the printed circuit board and the back cover for shielding electrical emanations of the electrical equipment (col. 4, ln. 31-40).

20. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the plasma display panel of Irie with a second porous pad between the printed circuit board and the back cover, as taught by Spear, for minimizing the generation of noise from the device.

21. Regarding claim 12, Irie discloses that the porous pad is made of a material that absorbs noise/vibration (col. 2, ln. 3-6).

22. Regarding claim 19, Figure 1 of Irie shows an outer casing surrounding the plasma display panel having a back cover (6) and a front cover (7).

Allowable Subject Matter

23. Claims 7-11, 15-18, and 20-21 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

24. The following is a statement of reasons for the indication of allowable subject matter: In addition to all other limitations of the base claim, the prior art of record neither shows or suggests the porous pad being made of a mixture of silicon and urethane foam.

Conclusion

25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tani (US 5971566) discloses a plasma display device with

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chassis member. Juen (US 6617767) discloses a thermal dispersing system of a plasma display device. Kim (US 6700315) discloses a plasma display device with efficient heat conductivity.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571) 272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Williams
Joseph Williams

Kevin Quarterman
Examiner
Art Unit 2879

kq *KQ*
14 June 2004

Nimesh Patel
Supervisory Patent Examiner
Art Unit 2879